

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D119-646 REV. E  
AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D119-646 REV. 4

REF. FAA STC: SR02024SE

REF. EASA STC: 10040294

REF. TCCA LOA: RDIMS 5400317

REF. DGCA INDIA LOA: 07-09/2011/AED

REF. BRAZIL STC: 2015S08-04

REF. CAAP LOA: FV16-0023SE

REF. CHINA STC: VSTC0758

REF. RUSSIA STC: CT316-A119

REF. DGCA INDONESIA STC: SR 026

REF. ANAC STC: CTS 1809.37

## 1.0 PURPOSE:

D3849-041/-043 Wearplates on D119-646-211/-212 Skidtubes at CHG 007 and subsequent, as well as D3849-045/-047 Wearplates on D119-646-213/-214 Float Skidtubes at CHG 008 and subsequent have been modified to improve durability. The improved wearplates feature modified hardcoat patterns and an additional wearbar on the D3849-041/-047 fwd wearplates. This upgrade is standard on all new D119-646-21X Skidtubes, as well as all replacement wearplates for existing skidtubes. This DSI provides updated Weight and Balance information when installing new replacement wearplates on skidtubes with the previous wearplate design.

## 2.0 D119-646-211/-212/-213/-214 WEARPLATE REPLACEMENT:

Install replacement D3849-041/-043/-045/-047 Wearplates per Section 32.6 of ICA-D119-646 Rev 4 or later approved revision. Update Weight and Balance per Section 3.0 of this Service Instruction as required.

## 3.0 WEIGHT AND BALANCE

When installing D3849-041/-043 Rev. G, update weight and balance for D119-646-211/-212 Skidtubes at CHG 006 and earlier with the weight and balance for D119-646-211/-212 Skidtubes at CHG 007. When installing D3849-045/-047 Rev. G, update weight and balance for D119-646-213/-214 Skidtubes at CHG 007 and earlier with the weight and balance for D119-646-213/-214 Skidtubes at CHG 008.

### Standard Skidtubes on A119

WAS	Installation	Weight	LONGITUDINAL		LATERAL	
			Arm	Moment	Arm	Moment
	<b>D119-646-211 (@ CHG 006)</b> STANDARD SKID TUBE INSTALLATION WITH TRAINING WEARPLATES, LH	48.7 lb 22.1 kg	119.1 in 3.03 m	5800 in lb 67.0 m kg	-39.4 in -1.00 m	-1919 in lb -22.1 m kg
	<b>D119-646-212 (@ CHG 006)</b> STANDARD SKID TUBE INSTALLATION WITH TRAINING WEARPLATES, RH	48.7 lb 22.1 kg	119.1 in 3.03 m	5800 in lb 67.0 m kg	39.4 in 1.00 m	1919 in lb 22.1 m kg

IS	Installation	Weight	LONGITUDINAL		LATERAL	
			Arm	Moment	Arm	Moment
	<b>D119-646-211 (@ CHG 007)</b> STANDARD SKID TUBE INSTALLATION WITH TRAINING WEARPLATES, LH	51.4 lb 23.3 kg	117.6 in 2.99 m	6045 in lb 69.7 m kg	-39.4 in -1.00 m	-2025 in lb -23.3 m kg
	<b>D119-646-212 (@ CHG 007)</b> STANDARD SKID TUBE INSTALLATION WITH TRAINING WEARPLATES, RH	51.4 lb 23.3 kg	117.6 in 2.99 m	6045 in lb 69.7 m kg	39.4 in 1.00 m	-2025 in lb -23.3 m kg

A	NEW ISSUE			ZF	19.06.26
REV.	DESCRIPTION			BY	DATE
DESIGN	PM	<b>DART AEROSPACE USA, INC.</b> HILLSBORO, OR			
DRAWN	ZF				
CHECKED	NO	DRAWING NO. <b>DSI 9828</b>			
MFG. APPR.	N/A				
APPROVED	NO	REV. A SHEET 1 OF 3			
DE APPR.	DS				
DATE	19.06.26	TITLE <b>WEARPLATE UPGRADE</b>			
SCALE NTS					
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APPROVED

## Standard Skidtubes on AW119MKII

WAS

Installation	Weight	LONGITUDINAL		LATERAL	
		Arm	Moment	Arm	Moment
D119-646-211 (@CHG 006) STANDARD SKID TUBE INSTALLATION WITH TRAINING WEARPLATES, LH	48.7 lb 22.1 kg	119.1 in 3.03 m	5800 in lb 67.0 m kg	-41.3 in -1.05 m	-2011 in lb -23.2 m kg
D119-646-212 (@ CHG 006) STANDARD SKID TUBE INSTALLATION WITH TRAINING WEARPLATES, RH	48.7 lb 22.1 kg	119.1 in 3.03 m	5800 in lb 67.0 m kg	41.3 in 1.05 m	2011 in lb 23.2 m kg

IS

Installation	Weight	LONGITUDINAL		LATERAL	
		Arm	Moment	Arm	Moment
D119-646-211 (@ CHG 007) STANDARD SKID TUBE INSTALLATION WITH TRAINING WEARPLATES, LH	51.4 lb 23.3 kg	117.6 in 2.99 m	6045 in lb 69.7 m kg	-41.3 in -1.05 m	-2123 in lb -24.5 m kg
D119-646-212 (@ CHG 007) STANDARD SKID TUBE INSTALLATION WITH TRAINING WEARPLATES, RH	51.4 lb 23.3 kg	117.6 in 2.99 m	6045 in lb 69.7 m kg	41.3 in 1.05 m	2123 in lb 24.5 m kg

## Float Skidtubes on A119

WAS

Installation	Weight	LONGITUDINAL		LATERAL	
		Arm	Moment	Arm	Moment
D119-646-213 (@ CHG 007) FLOAT SKID TUBE INSTALLATION WITH TRAINING WEARPLATES, LH	55.1 lb 25.0 kg	139.1 in 3.53 m	7664 in lb 88.3 m kg	-39.4 in -1.00 m	-2171 in lb -25.0 m kg
D119-646-214 (@ CHG 007) FLOAT SKID TUBE INSTALLATION WITH TRAINING WEARPLATES, RH	55.1 lb 25.0 kg	139.1 in 3.53 m	7664 in lb 88.3 m kg	39.4 in 1.00 m	2171 in lb 25.0 m kg

IS

Installation	Weight	LONGITUDINAL		LATERAL	
		Arm	Moment	Arm	Moment
D119-646-213 (@ CHG 008) FLOAT SKID TUBE INSTALLATION WITH TRAINING WEARPLATES, LH	58.2 lb 26.4 kg	137.4 in 3.49 m	7997 in lb 92.1 m kg	-39.4 in -1.00 m	-2293 in lb -26.4 m kg
D119-646-214 (@ CHG 008) FLOAT SKID TUBE INSTALLATION WITH TRAINING WEARPLATES, RH	58.2 lb 26.4 kg	137.4 in 3.49 m	7997 in lb 92.1 m kg	39.4 in 1.00 m	2293 in lb 26.4 m kg

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DESIGN	PM	DART AEROSPACE USA, INC.		
DRAWN	ZF	HILLSBORO, OR		
CHECKED	NO	DRAWING NO.		
MFG. APPR.	N/A	DSI 9828		
APPROVED	NO	REV. A		
DE APPR.	DS-#	SHEET 2 OF 3		
DATE	19.06.26	TITLE		
		WEARPLATE UPGRADE		
		NTS		
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		WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.		

Float Skidtubes on AW119MKII

WAS

Installation	Weight	LONGITUDINAL		LATERAL	
		Arm	Moment	Arm	Moment
<b>D119-646-213 (@ CHG 007)</b> FLOAT SKID TUBE INSTALLATION WITH TRAINING WEARPLATES, LH	55.1 lb 25.0 kg	139.1 in 3.53 m	7664 in lb 88.3 m kg	-41.3 in -1.05 m	-2276 in lb -26.3 m kg
<b>D119-646-214 (@ CHG 007)</b> FLOAT SKID TUBE INSTALLATION WITH TRAINING WEARPLATES, RH	55.1 lb 25.0 kg	139.1 in 3.53 m	7664 in lb 88.3 m kg	41.3 in 1.05 m	2276 in lb 26.3 m kg

IS

Installation	Weight	LONGITUDINAL		LATERAL	
		Arm	Moment	Arm	Moment
<b>D119-646-213 (@ CHG 008)</b> FLOAT SKID TUBE INSTALLATION WITH TRAINING WEARPLATES, LH	58.2 lb 26.4 kg	137.4 in 3.49 m	7997 in lb 92.1 m kg	-41.3 in -1.05 m	-2404 in lb -27.7 m kg
<b>D119-646-214 (@ CHG 008)</b> FLOAT SKID TUBE INSTALLATION WITH TRAINING WEARPLATES, RH	58.2 lb 26.4 kg	137.4 in 3.49 m	7997 in lb 92.1 m kg	41.3 in 1.05 m	2404 in lb 27.7 m kg

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DESIGN	PM	<b>DART AEROSPACE USA, INC.</b> HILLSBORO, OR		
DRAWN	ZF			
CHECKED	NO	DRAWING NO. <b>DSI 9828</b>	REV. A SHEET 3 OF 3	
MFG. APPR.	N/A			
APPROVED	NO	TITLE <b>WEARPLATE UPGRADE</b>		
DE APPR.	DS			
DATE	19.06.26	SCALE NTS		
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